BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : ***IMPROVEMENTS TO ROADS AND MAIN AND CROSS ROADS OF BHADRAPPA LAYOUT, LOTTEGOLLAHALLI AND SURROUNDING AREAS IN WARD NO.08 KODIGEHALLI***

Job Code : 008-20-000071						Estimate Cost Rs.		60.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	Removing and resetting of footpath slab (Page No.270 / Item No.37.56)								
	Bhadrappa Layout, Maruthi Nagara	Sqm							
	10th 'B' Cross Road		2	195.00	0.90		351.00		
	Upto SWD		2	110.00	0.90		198.00		
					Total Qty		**549.00**		
	Deduct 20% for Missing and Broken Slabs						109.80		
	Deduct Selected Reahes for New RCC Drain		*2*	*40.00*	*0.90*		*72.00*		
			2	*25.00*	*0.90*		*45.00*		
					Deduct Qty		**226.80**		
					Total Qty		**322.20**	208.82	**67281.80**
	Basic Rate	197.00							
	Area Weightage @ 6%	11.82							
	Total	**208.82**							
2	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No.140 & Item No-18.47)								
	Bhadrappa Layout, Maruthi Nagara	Cum							
	10th 'B' Cross Road		1	195.00	5.00	0.25	243.75		
	Upto SWD		1	110.00	4.00	0.25	110.00		
	9th Cross Road		1	45.00	6.50	0.25	73.13		
					Total Qty		**426.88**		
	Deduct 30% for Void Portion						128.06		
					Total Qty		**298.81**	952.94	**284750.38**
	Basic Rate	899.00							
	Area Weightage @ 6%	53.94							
	Total	**952.94**							
3	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (Page No.143 & Item No-19.1)								
	Bhadrappa Layout, Maruthi Nagara	Cum							
	10th 'B' Cross Road		2	195.00	0.60	0.60	140.40		
	Upto SWD		2	110.00	0.60	0.60	79.20		
					Total Qty		**219.60**	137.80	**30261.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
4	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No.KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
	Bhadrappa Layout, Maruthi Nagara	Cum							
	10th 'B' Cross Road		1	195.00	5.00	0.20	195.00		
	Upto SWD		1	110.00	4.00	0.20	88.00		
	9th Cross Road		1	45.00	6.50	0.20	58.50		
					Total Qty		**341.50**	263.94	**90136.00**
	Basic Rate	249.00							
	Area Weightage @ 6%	14.94							

Job Code : 008-20-000071				Estimate Cost Rs.				60.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Total	**263.94**							
5	KSRB 2-2.1 : Earth work excavation by manual means for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification No, KBS 2.1 (a) / 2.3.5, Page No.5 & Item No.2.3)								
	10th 'B' Cross Road	Cum							
	Selected Reahes for New RCC Drain		2	40.00	1.00	1.00	80.00		
			2	25.00	1.00	1.00	50.00		
	9th Cross Road		1	45.00	1.00	1.00	45.00		
	for New RCC Culverts		3	6.00	1.60	1.25	36.00		
					Total Qty		**211.00**	263.94	**55691.00**
	Basic Rate	249.00							
	Area Weightage @ 6%	14.94							
	Total	**263.94**							
6	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.136 & Item No 17.1)								
		Cum							
			Qty Vide Item No.2+3+4+5				**1070.91**	95.40	**102165.05**
	Basic Rate for Haulage of materials as per Item No.17.4	2.00 t.k							
	Area Weightage of earth (1.28 tonne/km) for 15km (2.00X1.28X15.00)	38.40							
	Add loading and unloading Item No 17.1)	57.00							
	Total	95.40							
7	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **Mix 1:4:8** with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications.Specification No. KBS 4.1, 4.2 (Page No.13 & Item No.4.3)								
	10th 'B' Cross Road	Cum							
	Selected Reahes for New RCC Drain		2	40.00	1.00	0.15	12.00		
			2	25.00	1.00	0.15	7.50		
	9th Cross Road		1	45.00	1.00	0.15	6.75		
	for New RCC Culverts		3	6.00	1.60	0.15	4.32		
	for CC Road								
	10th 'B' Cross Road		1	195.00	5.00	0.15	146.25		
	Upto SWD		1	110.00	4.00	0.15	66.00		
	9th Cross Road		1	45.00	6.50	0.15	43.88		
					Total Qty		**286.70**	5408.12	**1550480.96**
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
8	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page.No.14 & Item No-4.11)								
	Raft	Cum							
	10th 'B' Cross Road		2	40.00	1.00	0.15	12.00		
			2	25.00	1.00	0.15	7.50		
	9th Cross Road		1	45.00	1.00	0.15	6.75		
	for Culverts		3	6.00	1.60	0.15	4.32		

Job Code : 008-20-000071				Estimate Cost Rs.				60.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	side wall		4	40.00	0.15	0.60	14.40		
			4	25.00	0.15	0.60	9.00		
			2	45.00	0.15	0.60	8.10		
			6	6.00	0.25	0.90	8.10		
					Total Qty		**70.17**	5998.54	**420917.55**
	Basic Rate	5659.00							
	Area Weightage @ 6%	339.54							
	Total	**5998.54**							
9	KSRB 4-6.4 : Providing and removing **centering,** shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (Page.No.16 & Item No-4.31)								
	side wall	Sqm							
			8	40.00		0.60	192.00		
			8	25.00		0.60	120.00		
			4	45.00		0.60	108.00		
			12	6.00		0.90	64.80		
							484.80	379.48	**183971.90**
	Basic Rate	358.00							
	Area Weightage @ 6%	21.48							
	Total	**379.48**							
10	KSRB 4.9.2:Providing **T.M.T steel** reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 (Page No.18 & Item No.4.46.2)								
		tonne							
		60% of Qty Vide Item No.9 in Qtl					42.10		
					in tonne		**4.21**	75223.96	**316707.92**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
11	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 with solid concrete block of size 400x150x200mm (Page No.27 / Item No.5.27.2)								
	10th 'B' Cross Road (for f/c Wall)	Sqm							
	towards SWD		4	110.00		0.20	88.00		
					Total Qty		**88.00**	1010.18	**88896.00**
	Basic Rate	953.00							
	Area Weightage @ 6%	57.18							
	Total	**1010.18**							
12	KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(Page No.115 / Item No. 15.1)								
	10th 'B' Cross Road (for f/c Wall)	Sqm							
	towards SWD		4	110.00		0.20	88.00		
					Total Qty		**88.00**	149.46	**13152.00**
	Basic Rate	141.00							
	Area Weightage @ 6%	8.46							
	Total	**149.46**							

Job Code : 008-20-000071					Estimate Cost Rs.			60.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2(P No. 13 / Item No.4.6)								
	coping	Cum							
			4	110.00	0.15	0.10	6.60		
	Reconstruction Ramp		2	110.00	0.30	0.12	15.84		
					Total Qty		**22.44**	5747.32	**128970.00**
	Basic Rate	5422.00							
	Area Weightage @ 6%	325.32							
	Total	**5747.32**							
14	Supply and fixing Precast reinforced concrete slab 10cm thick including cost of reinforcement as per design and drawing, material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveynce charges, labour charges inclusive of cost of all materials.								
	Covering Slabs to Drains	Cum							
	Replaced 20% for Missing and Broken Slabs as Per Qty Vide Item No.1						109.80		
	Selected Reahes for New RCC Drain		2	40.00	0.90		72.00		
			2	25.00	0.90		45.00		
	9th Cross Road		1	45.00	0.90		40.50		
					Total Qty		**267.30**	1922.00	**513751.00**
	(Excluding GST) Approved Data Rate	1922.00							
15	Supply and fixing Precast reinforced concrete slab 23cm thick including cost of reinforcement as per design and drawing, material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveynce charges, labour charges inclusive of cost of all materials.								
	Covering Slabs	Cum							
	for Culverts		3	6.00	1.50		27.00		
					Total Qty		**27.00**	4886.00	**131922.00**
	(Excluding GST) Approved Data Rate	4886.00							
16	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (Page No.175&176 & Item No-22.6.1)								
	for CC Road	Cum							
	10th 'B' Cross Road		1	195.00	5.00	0.15	146.25		
	Upto SWD		1	110.00	4.00	0.15	66.00		
	9th Cross Road		1	45.00	6.50	0.15	43.88		
					Total Qty		**256.13**	5210.96	**1334657.13**
	Basic Rate	4916.00							
	Area Weightage @ 6%	294.96							
	Total	**5210.96**							
17	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ **Concrete Surface**: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No.182 & Item No.24.15)								
	for CC Road	Sqm							

Job Code : 008-20-000071						Estimate Cost Rs.	60.00	Lakhs
Sl. No	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	10th 'B' Cross Road		2.5	195.00	0.10		48.75		
	Upto SWD		2.5	110.00	0.10		27.50		
	9th Cross Road		2.5	45.00	0.10		11.25		
					Total Qty		**87.50**	454.74	**39790.00**
	Basic Rate	429.00							
	Area Weightage @ 6 %	25.74							
	Total	**454.74**							
	Sub-Total for CSR 2018-19								**5353502.00**
	12% for Applicable GST on CSR 2018-19								**642420.00**
	Miscellaneous and unforeseen charges								**4078.00**
	Grand Total Amount Rs.								**6000000.00**
(Rupees Sixty Lakhs Only)									

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2018-19 and Approved Data Rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants
6) This work is Under Budget Head P-3726 Zonal Public Works

Assistant Engineer
Ward No.08
Kodigehalli

Assistant Executive Engineer
Kodigehalli Sub-Division
B.B.M.P

29/04

Executive Engineer
BYATARAYANAPURA - DIVISION
B.B.M.P

ADMINISTRATIVE APPROVAL

Accorded For Rs. 60.00 Lakhs only

Head of A/c. P3726

Div. Ref. No. 07/20-21 Date 19-5-2020

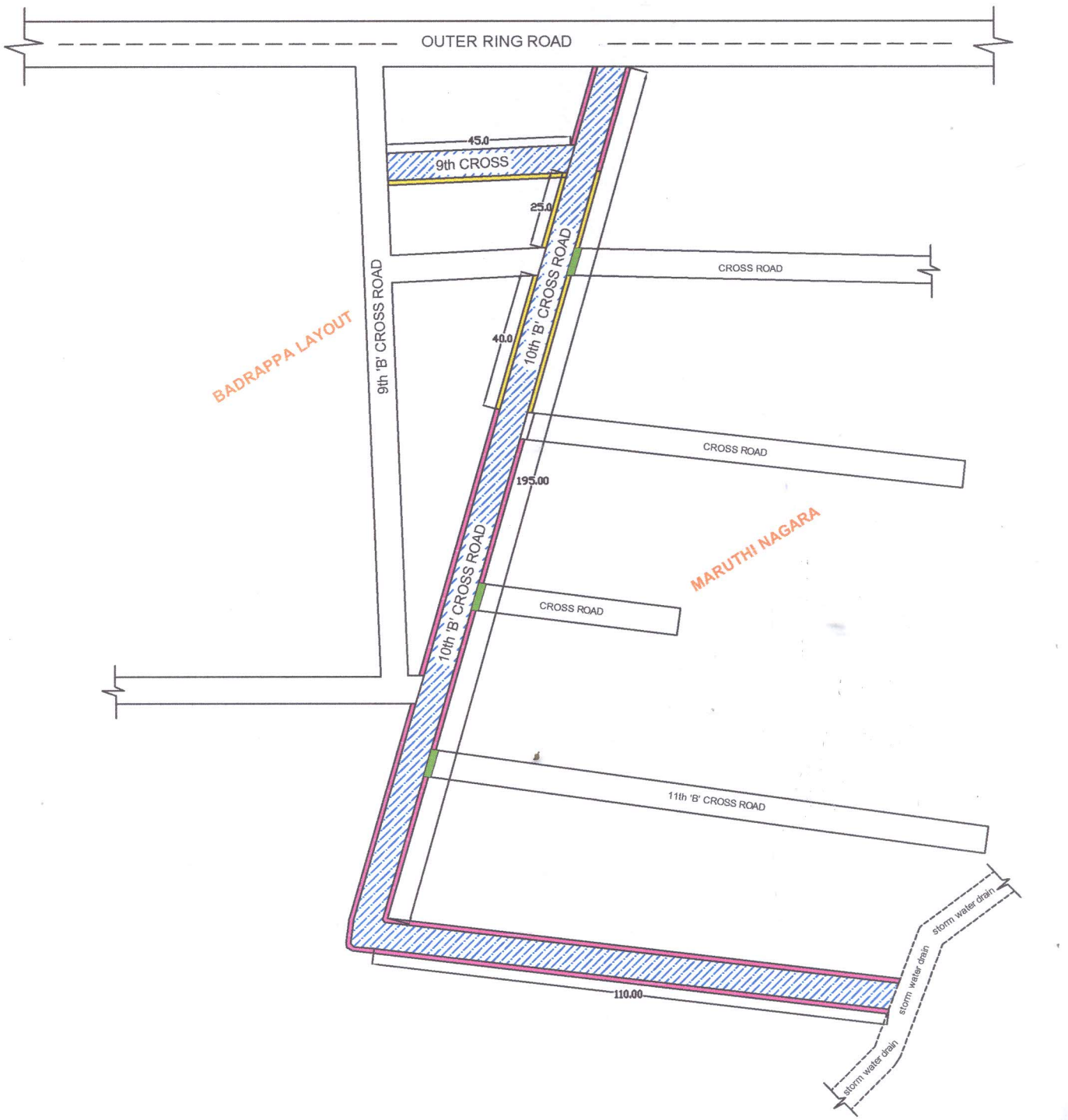
AE EE(BTP) 19/05

Technical Sanction
Accorded For Rs 60.00 lakhs only
Head of A/C P3726
CER NO : 01 Dt: 22.05.2020

TA CE (YNK)

NAME OF WORK : IMPROVEMENTS TO ROADS AND ROADS IN MAIN AND CROSS ROADS OF BHADRAPPA LAYOUT, LOTTEGOLLAHALLI AND SURROUNDING AREAS IN WARD NO.08 KODIGEHALLI

ESTIMATE COST : Rs.60.00 LAKHS	KEY : NOT TO SCALE
JOB NUMBER : 008-20-000071	N



Assistant Engineer
Ward No.08
Kodigehalli

Assistant Executive Engineer
Kodigehalli Sub-Division
B.B.M.P

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